CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP.

12th December 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE ward no 5
ಸಿವಿಲ್ ಕಾಮಗಾರಿಗಳು
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	12/12/2016
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)	
			Individual	Avg. of 8 samples
1	40x20x20	4.2	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.3		
3		4.4	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
4		4.2		
5		4.4		
6		4.3		
7		4.2		
8		4.4		
Average Compressive strength (N/mm²)		**4.3**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	7.41	**7.44**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.43		
3 .		7.49		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	1866.5	**1867.3**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1867.3		
3		1868.1		

Remarks	Satisfies the Requirements.

Note:

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AE ward No 5
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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Khushboo
(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	12/12/2016

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Ward No 5

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	12/12/2016
Specific Gravity	**2.57**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**98.6**	90-100	90-100	90-100	95-100		
	2.36	**87.3**	60-95	75-100	85-100	95-100		
	1.18	**75.2**	30-70	55-90	75-100	90-100		
	0.6	**48.4**	15-34	35-59	60-79	80-100		
	0.3	**25.1**	5-20	8-30	12-40	15-50		
	0.15	**7.9**	0-10	0-10	0-10	0-15		

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AE ward No 5

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(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	12/12/2016
Specific Gravity	**2.68**
Water Absorption	**0.28%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement**
40	**99.2**	95-100	
20	**54.1**	30-70	
10	**25.3**	10-35	
4.75	**3.3**	0-5	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE ward No 5
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(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	12/12/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	509	500	Satisfactory
6	U T S (N/Sq.mm)	566	545	Satisfactory

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE ward no 5
ಫೋಕ್ ಕೈಬಳಕ್ಕಿ

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Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP.

25th January 2017 .

Dear Sir,

Sub: Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE ward No 5
ಸಾಕ್ಷಿ ಕ್ರಮ ಸಂಖ್ಯೆ A

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.04 X 150.03 X 150.0	22511	28/12/2016	25/01/2017	28	8.20	360	**16.00**	**15.79**
2		150.06 X 150.04 X 150.0	22515				8.21	354	**15.73**	
3		150.05 X 150.02 X 150.0	22511				8.23	352	**15.64**	

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AE ward No 5

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Khushboo

(KHUSHBOO L.)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP.

13th February 2017

Dear Sir,

Sub: Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division..
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE ward no 5
ಶೂನ್ಯ ಸ್ವೀಕೃತಿಗಾಗಿ

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC Work	150.08 X 150.07 X 150.0	22523	16/01/2017	13/02/2017	28	8.23	495	**22.00**	**21.78**
2		150.07 X 150.02 X 150.0	22514				8.21	490	**21.78**	
3		150.03 X 150.05 X 150.0	22512				8.24	485	**21.56**	

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AE ward No. 5
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T-2654

To,

Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP.

20th February 2017

Dear Sir,

Sub: Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division..
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.04 X 150.02 X 150.0	22509	23/01/2017	20/02/2017	28	8.20	490	**21.78**	**22.00**
2		150.02 X 150.03 X 150.0	22508				8.21	495	**22.00**	
3		150.06 X 150.05 X 150.0	22517				8.19	500	**22.22**	

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Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.07 X 150.04 X 150.0	22517	23/01/2017	20/02/2017	28	8.19	495	**22.00**	**22.30**
2		150.08 X 150.06 X 150.0	22521				8.20	500	**22.22**	
3		150.09 X 150.05 X 150.0	22521				8.21	510	**22.67**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE ward no 5
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Khushboo
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.11 X 150.09 X 150.0	22530	23/01/2017	20/02/2017	28	8.21	490	**21.78**	**21.78**
2		150.12 X 150.11 X 150.0	22535				8.20	485	**21.56**	
3		150.03 X 150.06 X 150.0	22514				8.18	495	**22.00**	

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AE ವಾರ್ಡ್ No5
ಶುಷ್ಕ ಸಿಮೆಂಟ್

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Byatarayanapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Srinivasapura Shettappa (Ponnappa) Layout in ward no.5, Byatarayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.04 X 150.08 X 150.0	22518	23/01/2017	20/02/2017	28	8.23	505	**22.44**	**22.15**
2		150.03 X 150.05 X 150.0	22512				8.21	490	**21.78**	
3		150.02 X 150.03 X 150.0	22508				8.22	500	**22.22**	

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AE ward No 5
ಶುಕ್ಲ ತೀರ್ಥಕ್ಷಿ

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